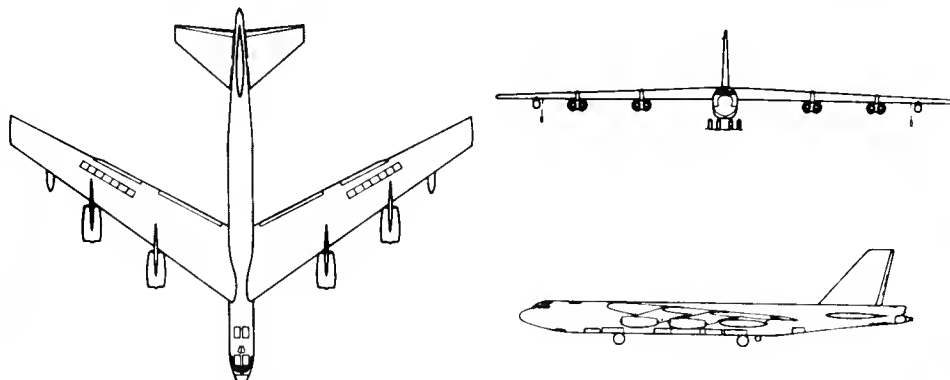


# Characteristics Summary

HEAVY BOMBER . . . . . B-52G



STRATOFORTRESS

BOEING

Wing Area . . . . . 4000 sq ft. Length . . . . . 157.6 ft.  
 Span . . . . . 185.0 ft. Height . . . . . 40.7 ft.  
 Height (Fin folded) . . . . . 21.5 ft.

AVAILABILITY			PROCUREMENT			
Number available			Number to be delivered in fiscal years			
TEST	INVENTORY	TOTAL	FY61			
11	179	190	0			

## STATUS

1. Major differences from the B-52F are: reduced span fin, deletion of ailerons, 700 gallon fixed external tanks, enlarged nose radomes, relocation of gunner, integral wing fuel tanks, reduced empty weight and increased max. gross weight.
2. Program Initiated: . . . . . Jun 56
3. First Flight : . . . . . Oct 58
4. First Acceptance . . . . . Oct 58
5. Out of Production: . . . . . Feb 61

Navy Equivalent: None

Mfr's Model: 464-253

## POWER PLANT

(8) J57-P-43WB \*\*\*  
 Pratt & Whitney

### ENGINE RATINGS

S.L.S. LB - \*\*RPM - MIN  
 Max: 13,750 - 6800/9650 - 5  
 Mil: 11,200 - 6400/9650 - 30  
 Nor: 9,500 - 6100/9350 - Cont

\* Wet

\*\* First figure represents low pressure spool; second figure represents high pressure spool

\*\*\* Equipped with sound suppressors

Note: There are no requirements for ATO

## FEATURES

Crew . . . . . 6  
 Cabin pressurization, heating and cooling  
 ASB-9 Improved Hi Speed Bombing Radar  
 ASG-15 Fire control sys.  
 Quadricycle landing gear with cross-wing steering  
 Braking parachute  
 Aerodynamic spoilers (airbrakes)  
 Anti-skid brakes  
 Single-point ground and air refueling provisions  
 Liquid oxygen system  
 4 Engine driven 40 KVA alternators  
 6 Engine driven hyd. pumps  
 Folding fin.

Max fuel cap: 47,975 gal

## ARMAMENT

Turret . . . . . 1  
 Guns . . . . . 4 x 50 cal  
 Ammunition . . (total) 2400 rds

### BOMBS:

Nr.  
 27 (family of clusters)(1000lb ea)

### Special Weapons

\*MK 6  
 MK 15  
 MK 28  
 MK 36  
 MK 39  
 MK 41

\*1st 154 G's only

### Note:

Airplane will carry 4 GAM-72 & 2 GAM-77 missiles or 4 GAM-87 missiles after retrofit.

Max Bomb Load: (2) 17,700 lb

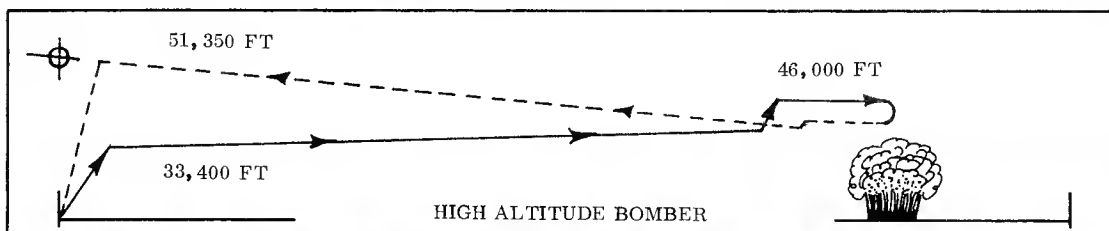
MAY 61

UNCLASSIFIED

B-52G (System 101A)

(AFG 1, Addn 28)

# Characteristics Summary Basic Mission ..... B-52G



## PERFORMANCE (a)

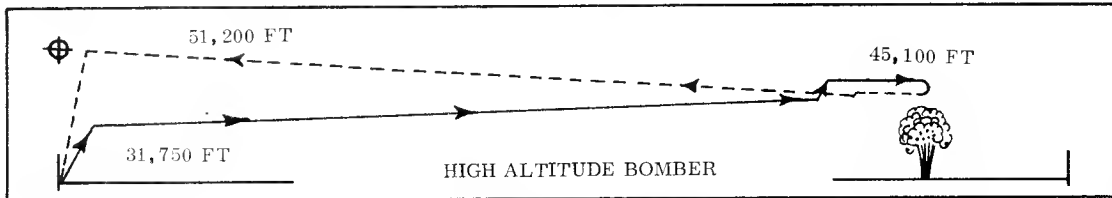
COMBAT RADIUS	FERRY RANGE	S P E E D
3460 naut. mi with 10,000/400/270 lb payload at 454 knots avg. in 15.30 hours.	7270 naut. mi with 43,986 gal fuel at 454 knots avg. in 16.00 hours at (b) 450,000 lb T.O. wt.	(TAS) COMBAT 495 knots at 46,000 ft alt, mil power MAX 553 (e) knots at 20,500 ft alt, mil power BASIC 521 knots at 35,000 ft alt, mil power
C L I M B	C E I L I N G	T A K E - O F F
2425 fpm sea level, take-off weight normal power	38,400 ft 100 fpm, take-off weight normal power	ground run 6750 ft
5850 fpm sea level, combat weight military power	47,100 ft 500 fpm, combat weight military power	over 50 ft height 8800 ft
L O A D	W E I G H T S	S T A L L I N G S P E E D
Bombs/Chaff/Flares: 10,000/400/270 lb Ammunition 2400 rds. / .50 cal.	Empty..... 158,590 lb Combat... 281,390 lb Take - off (b) 450,000 lb limited by structure (inflight)	147 knots power-off, landing config- uration, take-off weight (d)
Fuel: 42,345 gal protected 0 % droppable 0 % external (c) 3.3 % Density (JP-4) lb/gal (6.5)		T I M E T O C L I M B 19.1 minutes to cruise altitude of 33,400 ft.

## NOTES

- Performance Basis:
  - Data Source: Flight test
  - Does not include 10,000 lb water
  - Based on 42,345 gallon load
  - Initial buffet
  - Limited by structure
- Revision Basis: Data reCOORDINATED.

# SUPPLEMENTAL ..... B-52G

## Characteristics Summary Basic Mission - ALTERNATE IN-FLIGHT



### PERFORMANCE (a)

COMBAT RADIUS	FERRY RANGE	S P E E D
<b>3785</b> naut. mi with 10,000/400/270 lb payload at 454 knots avg. in 16.74 hours.	<b>7735</b> naut. mi with 47,975 gal fuel at 454 knots avg. in 17.11 hours at (b) 475,928 lb T.O. wt.	(TAS) COMBAT <b>494</b> knots at 45,100 ft alt, mil power MAX - <b>553</b> (c) knots at 20,500 ft alt, mil power BASIC <b>521</b> knots at 35,000 ft alt, mil power
C L I M B	C E I L I N G	T A K E - O F F
<b>2180</b> fpm sea level, take-off weight normal power	<b>36,700</b> ft 100 fpm, take-off weight normal power	ground run <b>8100</b> ft
<b>5560</b> fpm sea level, combat weight military power	<b>46,150</b> ft 500 fpm, combat weight military power	over 50 ft height <b>10,350</b> ft
L O A D	W E I G H T S	S T A L L I N G S P E E D
Bombs/Chaff/Flares: 10,000/400/270 lb Ammunition 2400 rds/.50 cal.  Fuel: 47,975 gal protected 0 % droppable 0 % external 2.9 % Density (JP-4) lb/gal (6.5)	Empty..... 158,590 lb Combat... 294,650 lb Take - off (b) 486,598 lb limited by fuel capacity	<b>153</b> knots power-off, landing configuration, take-off weight (d) <b>TIME TO CLIMB</b> <b>20.1</b> minutes to cruise altitude of 31,750 ft.

### N O T E S

- Performance Basis:
  - Data Source: Flight Test
  - Does not include 10,000 lb water
  - Limited by structure
  - Initial buffet
- Revision Basis: Data reCOORDINATED.